We claim:

- 1 1. A network receiving agent operable in a Scalable Interface system, the network receiving agent comprising:
- a sensor designed to receive information about an environment;
- an environment setting describing the status of a device in the environment; and an updater designed to update the environment setting based on data input to the
- 6 sensor.

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- 1 2. A network receiving agent according to claim 1, wherein the sensor is designed to receive a change in the availability of the device.
 - 3. A network receiving agent according to claim 2, wherein the updater is designed to update the environment setting to reflect the change in the availability of the device.
 - 4. A network receiving agent according to claim 1, the network receiving agent further comprising a receiver designed to receive an inquiry from a network lurking agent.
 - 5. A network receiving agent according to claim 4, wherein the receiver is designed to respond to the inquiry from the network lurking agent based on the environment setting.
- 1 6. A network receiving agent according to claim 4, wherein the receiver is designed to access the device in the environment if the device is available.
- 7. A network receiving agent according to claim 6, wherein the receiver is designed to access the environment setting to determine the availability of the device.
- 8. A network receiving agent according to claim 4, wherein the receiver is designed to access an active device in the environment.
- 9. A network receiving agent according to claim 4, the network receiving agent further comprising:

3	a history store designed to store information about the inquiry, the information about			
4	the inquiry including a source of the inquiry; and			
5	a message store designed to store a message from the source of the inquiry when the			
6	device is not available.			
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1	10. A network receiving agent according to claim 1, wherein the updater is			
2	designed to update the environment setting to reflect the availability of a user.			
1	11. A network lurking agent operable in a Scalable Interface system, the network			
2	lurking agent comprising:			
3	a lurker designed to visit an environment within the Scalable Interface system; and			
_4 .0	an inquirer designed to inquire as to the availability of a device in the environment.			
	12. A network lurking agent according to claim 11, the network lurking agent			
	further comprising a sender designed to send a message when the inquiry is refused.			
1 1	13. A network lurking agent according to claim 11, the network lurking agent			
[⊒2 [⊒	further comprising a receiver designed to receive a message.			
1	14. A Scalable Interface system designed to support network lurking, the Scalable			
¹ -2	Interface system comprising:			
3	a network receiving agent designed to receive an inquiry about the availability of a			
4	device in an environment; and			
5	a network lurking agent designed to send the inquiry to the network receiving agent.			
1	15. A Scalable Interface system according to claim 14, wherein the network			
2	lurking agent is designed to place the inquiry in a Space in the Scalable Interface system.			
1	16. A Scalable Interface system according to claim 15, wherein the Scalable			
2	Interface system notifies the network receiving agent about the inquiry when the network			
3	lurking agent places the inquiry in the Space.			

23. A method according to claim 20, the method further comprising;
receiving an inquiry; and
sending a message in response to the inquiry.

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24. A computer-readable medium containing a program to use a network receiving agent to update an environment setting in a Scalable Interface system on a computer system, the program being executable on the computer system to implement the method of claim 20.

1	25.	A method for using a network lurking agent to electronically lurk to an			
2	environment in a Scalable Interface system, the method comprising:				
3	lurking to the environment; and				
4	inquiring as to the availability of the environment.				
1	26.	A method according to claim 25, wherein inquiring as to the availability of the			
2	environment includes inquiring as to the availability of a user in the environment.				
1	27.	A method according to claim 25, the method further comprising responding to			
2	2 the inquiry by a network receiving agent.				
1	28.	A method according to claim 27, wherein responding to the inquiry includes			
<u>-</u>	accessing devices by the network lurking agent and the network receiving agent to enable				
	communication.				
### 1 ### 1	29.	A method according to claim 27, wherein responding to the inquiry includes:			
2	refusing the inquiry by the network receiving agent;				
= 3	sending a message from the network lurking agent to the network receiving agent; and				
133 144 144 147 147 147 147	storing the message for later access from the environment.				
1-1	30.	A method according to claim 27, wherein responding to the inquiry includes:			
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3	receiving the message at the network lurking agent.				
1	31.	A computer-readable medium containing a program to use a network lurking			
2	agent to electronically lurk to a location on a computer system, the program being executa				
3	on the computer system to implement the method of claim 25.				
1	32.	An apparatus for using a network receiving agent to update an environment			
2	setting in a Scalable Interface system, the apparatus comprising:				
3	means for receiving sensor input from a device in an environment; and				
4	means for updating the environment setting based on the sensor input.				

1	33.	An apparatus according to claim 32, wherein the means for updating includes		
2	means for updating the environment setting to reflect the availability of the device.			
1	34.	An apparatus according to claim 32, wherein the means for updating includes		
2	means for updating the environment setting to reflect the availability of a user.			
1	35.	An apparatus according to claim 32, the apparatus further comprising;		
2	means for receiving an inquiry; and			
3	means for sending a message in response to the inquiry.			
1	36.	An apparatus for using a network lurking agent to electronically lurk to an		
_2	environment	in a Scalable Interface system, the apparatus comprising:		
1 3	s for lurking to the environment; and			
	mean	s for inquiring as to the availability of the environment.		
Ū1 L≟	37.	An apparatus according to claim 36, wherein the means for inquiring includes		
2	means for inc	quiring as to the availability of a user in the environment.		
<u>i</u> =1	38.	An apparatus according to claim 36, the apparatus further comprising means		
1	ng to the inquiry by a network receiving agent.			
1	39.	An apparatus according to claim 38, wherein the means for responding		
2	includes mea	ins for accessing devices by the network lurking agent and the network receiving		
3	agent to enable communication.			
1	40.	An apparatus according to claim 38, wherein the means for responding		
2	includes:			
3	means for refusing the inquiry by the network receiving agent;			
4	means for sending a message from the network lurking agent to the network receiving			
5	agent; and			
6	means for storing the message for later access from the environment.			

- 1 41. An apparatus according to claim 38, wherein the means for responding 2 includes:
- means for sending a message from the network receiving agent to the network lurking agent; and
- 5 means for receiving the message at the network lurking agent.